

Species Datasheet

Datasheet No. A-377.001.006
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Acanthus volubilis* Wall.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Dilivaria scandens* Nees, *D. volubilis* (Wall.) Nees

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Asterids
- Order: Lamiales Bromhead
- Family: Acanthaceae Juss.
- Genus: *Acanthus* L.
- Species: *A. volubilis* Wall.

Bentham and Hooker(1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Gamopetalae
- Series: Bicarpellatae
- Cohors: Personales
- Ordo: Acanthaceae Juss.
- Genus: *Acanthus* L.
- Species: *A. volubilis* Wall.

4. Distribution:

Global: This species is found in South Asia, including Bangladesh, Brunei Darussalam, China, Hong Kong, India, Indonesia, Malaysia, Philippines, Singapore, Sri Lanka, Thailand, Viet Nam, Cambodia, and Papua New Guinea.

India: Andaman and Nicobar Islands, East & North East India.

5. **Indigenous/Exotic/Endemic; Cultivated/Wild:** Wild.

6. Threat Status:

IUCN: Least Concern

BSI

7. **Habit and Habitat:** Twining shrub, observed in landward edges of mangroves just above the high tide mark flooded during spring tides.

8. **Life Form:** Chamaephytes

9. **Economic Importance:** Medicinal.

10. **Probable Progenitor of:**

11. **DNA**

C-value Methodology

4C DNA (pg.) - 9.37² Fuelgen cyto photometric method²

12. **Basic chromosome number(s):** not reported

13. **Zygotic chromosome number(s):** 2n = 44²

14. **Gametic chromosome number(s):** n = 22²

15. **Specialized chromosomes (B chromosomes/Sex chromosomes/Ring chromosomes/etc):**

Image file

16. **Ploidy level:** Diploid²

Image file

17. Agametoploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo):

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

21. Somatic chromosomes:

Karyotype-Majority metacentric²

Chromosome size-

NOR chromosome(s)

Degree of asymmetry ~ Symmetrical²

Image file

22. Banding pattern(s):

Image file

23. Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis

Male meiosis

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level

29. Any other information: